VISHNYAKOV, Valentin Vasil'yevich[Vyshniakov, V.V.]; BEZUGLYY, A.M. [Bezuhliy, A.M.], kand. geol.-miner. nauk, red.; SHPORTYUK, V.I., red.; GORBUNOVA, N.M.[Horbunova, N.M.], tekhn. red.

[Concised geological dictionary-handbook]Korotkyi geologichnyi slovnyk-dovidnyk. Za red. A.M. Bezuhloho. Kyiv, "Radians'ka shkola," 1962. 112 p. (MIRA 16:3) (Geology-Dictionaries)

TIKHOMIROV, D.N., polkovnik med.sluzhby, zasluzhennyy vrach UkrSSR;

EKZUGLYI, A.Ye., polkovnik meditsinskoy sluzhby

Closed lesions and wounds other than gunshot in the abdomen and abdominal organs. Sbor.nauch.trud.Kiev.okruzh.voen.gosp.

(MIRA 16:5)

162.

(VISCERA-WOUNDS AND INJURIES)

Glinical, roentgenological and morphological juxtaposition in

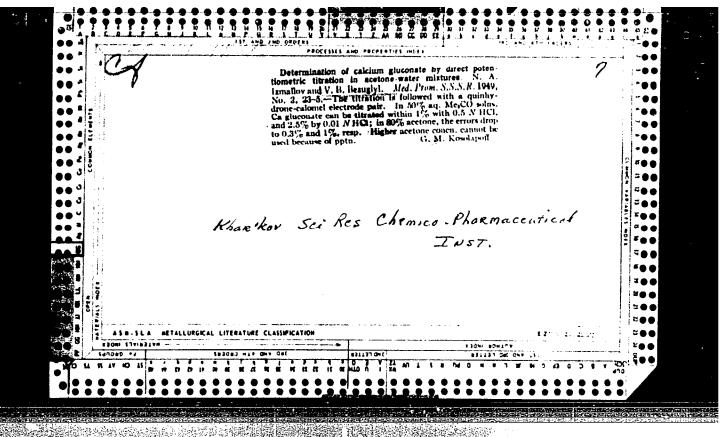
Clinical, roentgenological and morphological and

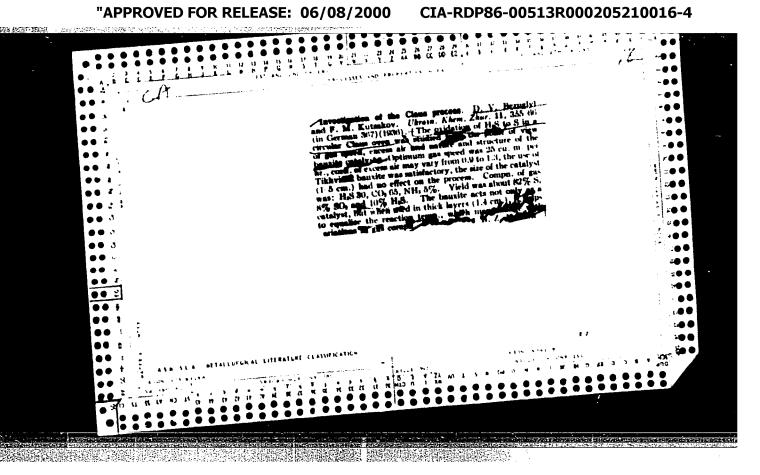
BEZUGLYY, A.Ye. (Kiyev, 105, prospekt Mira, 55, kv. 29); KOLESOV, V.D.

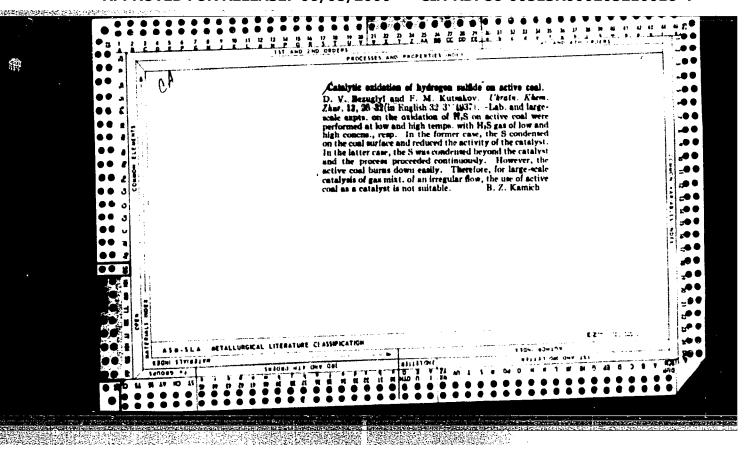
Experience in the clinical use of the UKL-60 apparatus in esophageal, gastric and intestinal surgery. Vest. khir. 92 no.1:79-81
Ja '65. (MIRA 17:11)

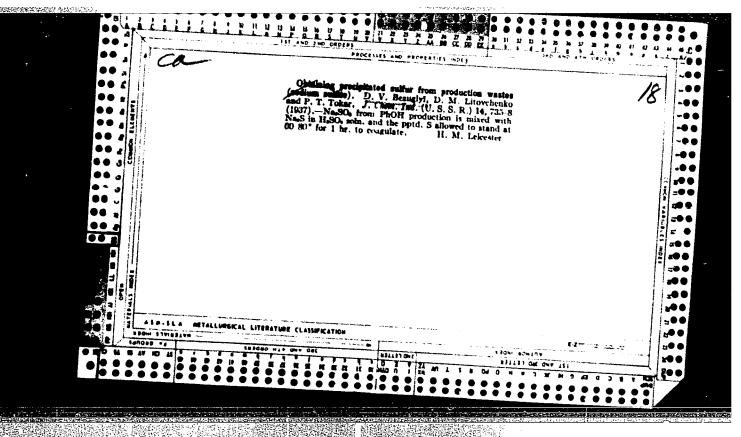
1. Iz voyennogo gospitalya, Kiyev.

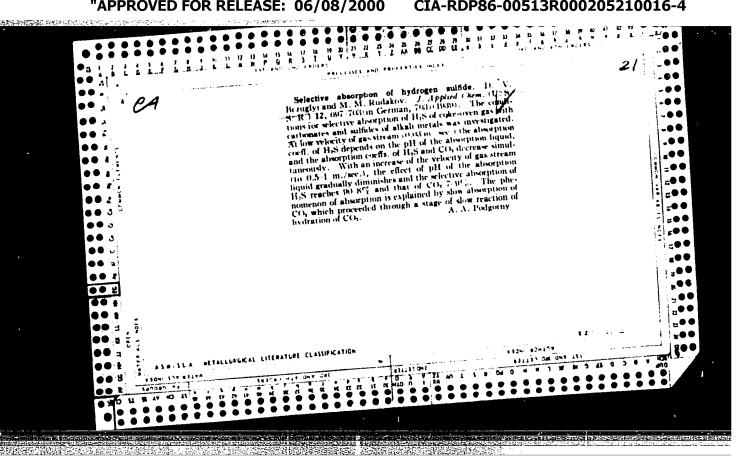
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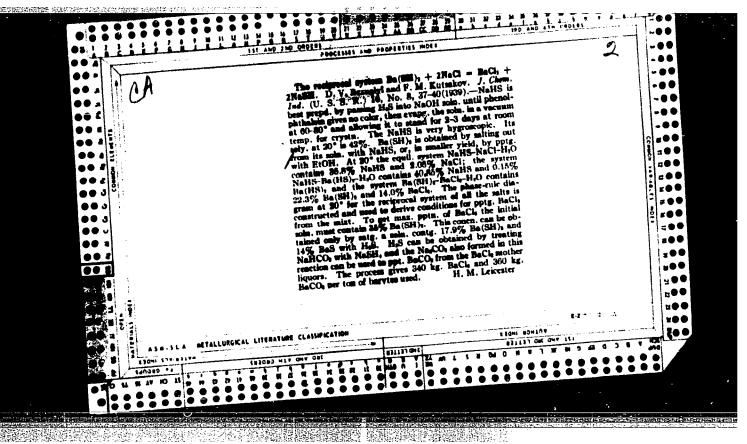


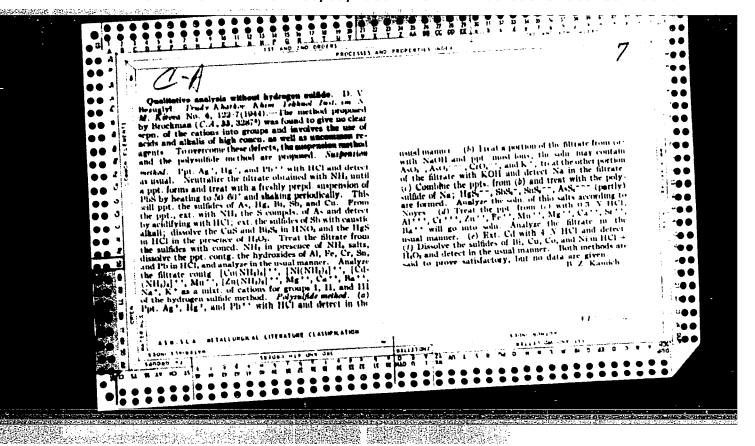


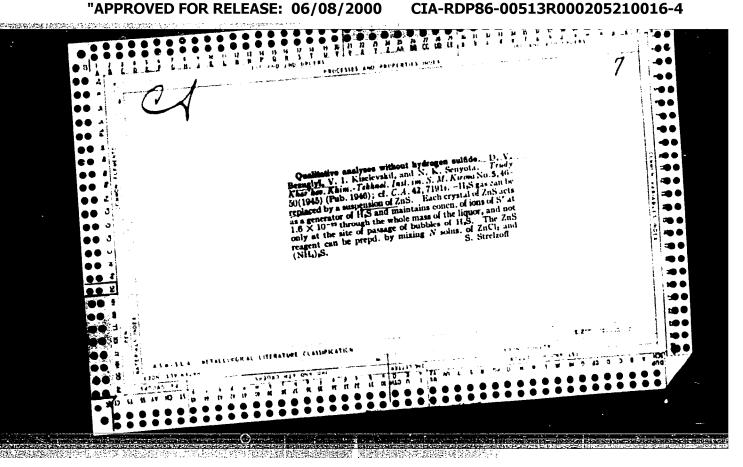


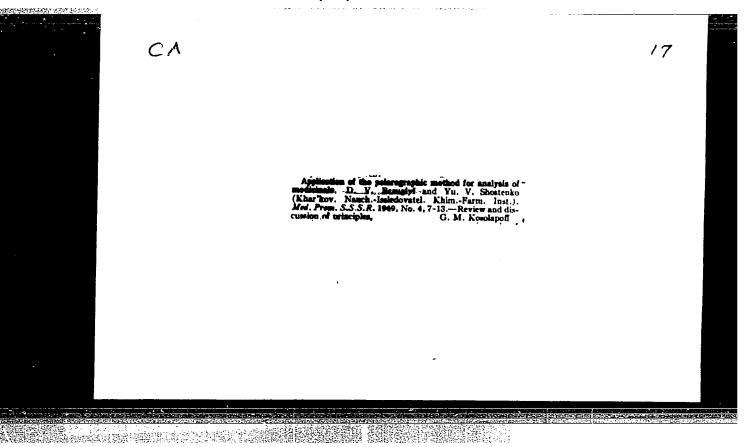


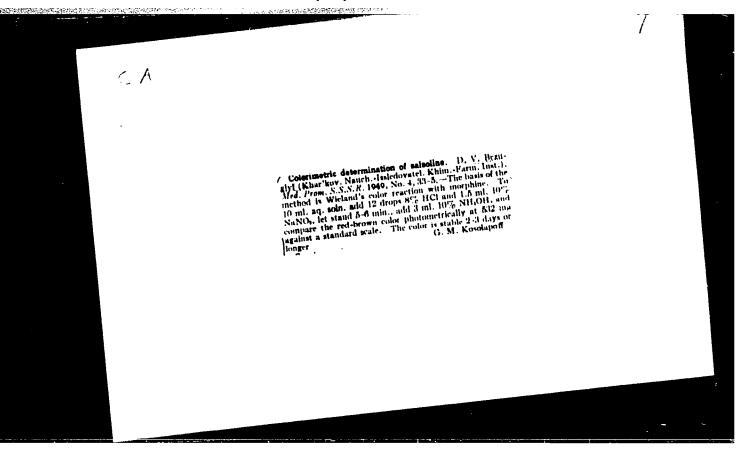












Araba indiana	-	Distr: LELJ Separation of cations by the precipitation chromatography method. D. V. Bernglyt, I. A. Petrusevich, and N. K. Senyuta. Trialy Kharkar. Politich Inv. 4, 111-13 (1051); Refeat. Zhar. Khan. 1953, Abstr. No. 54782.— The pressibility of spars? Act of Albert. No. 54782.—
Mil allowards		The possibility of sepg? Ag* mat/Fe*** by ppin, chromatography is investigated. The adsorber with strongly activated surface is prepal, by agitating a pulp obtained by boiling cutten in 5%, HNOL, with finely powd, Al(OII). Phosphate ions adsorbed by the carrier by passing Na hydrophosphate through it serve to ppt, the cations. It is shown that such a column completely exts. Ag* and Fe*** from the soln. Further sepn, of Ag* and Fe*** Is achieved by dissolving the Ag* with 0.1N AcOH at 70°. N. V.
	and control of the second of t	The state of the s

Bezuclyy, Dr.

USSR/ Analytical Chemistry - Analysis of Inorganic Substances G-2

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 12125

Author : Bezuglyy D.V., Petrusevich I.A., Karlyuka T.N.

Inst : Khar'kov Polytechnic Institute

Title : Determination of Micro-Components of Tin-Free Bronzes

Orig Pub : Tr. Khar'kovsk. politekhn. in-ta, 1956, 8, 165-168

Abstract : For determination of Pb (1 mg) in tin-free bronzes

colorimetry is applied to a solution of I₂ in an organic solvent after separation of lead dioxide that is deposited at the anode. For determination of Sn is recommended the hematoxylin method; conditions have been worked out for the separation of Sn from interfering components. In determination of Sn it is separated by coprecipitation

with MnO2.

Card 1/1

Bezublyy, D.V.

USSR / Analytical Chemistry - General Questions

G-1

Abs Jour

: Referat Zhur - Khimiya, No 4, 1957, 11991

Author

: Bezuglyy D.V., Borovshchuk M.P. : Khar'kov Polytechnic Institute

Inst Title

: Separation of Cathions by Ion-Exchange Method

Orig Pub

: Tr. Khar'kovsk. politekhn. in-ta, 1956, 8, 169-175

Abstract

: Equilibrium distribution of Cu²⁺ and Mn²⁺ ions between sulfonated coal and solution can be expressed by the Rothmund-Kornfeld equation, which indicates the heterogeneous nature of this ion-exchanger; in the state of equilibrium sulfonated coal is enriched with Cu, and the solution with Mn. Dynamic exchange capacity of sulfonated coal does not depend upon the concentration of the solution. It was ascertained that by the method of ion-exchange adsorption on sulfonated coal, it is possible to attain a concentration and enrichment of ion-exchanger with Cu, and also a particle assertation of Mn.

tial separation of Mn.

Card 1/1

BEZUGLYY, D.V.; PETRUSEVICH, I.A.

Comparing methods for determining organic substances in aluminate solutions. Zav. lab. 24 no.12:1448-1449 '58. (MIRA 12:1)

14

l.Khar'kovskiy politekhnicheskiy institut imeni V.I. Lenina. (Organic matter--Analysis) (Aluminates)

W6.169:	besugivy, D.V.	\$0V/62-52-2-4/56
WITLE:	Production of Soulum Carbonat Ion Exchangers (Poluchoniye pri pomeshchi ionoch ennikov)	te and Bicarbonate by Hoans of kurbonata i biharbonata natrija
FURIOFICAL:	Thurnal (ribladnoy Entail, 1) rp 155-268 (USSR)	50, Vol XXXII, Mr 2,
1.80000.1 0 00	of soda. The dynamics of the hore and formulae for its call pounds used for the production carbonate were studied in the vestigations (Table 1) shows factors are the height of the column and the speed of the 2 The exchange of hydrogen ions tensive in all investigated carbon) and sulfo-acid types, the height of the exchange zo the zone 0,0026 cm/sec. Ammoditing of Soviet salt lakes has	that the principal dynamic coin exchange zone in a testing cone advancement in the column. The principal dynamic in the column of the mixed (sulforment Er 4 (Table 1) one was 16.29 cm, the speed of onium salts from the natural combeen transformed into the
Card 1/2		and yield of 70%. L.A. Belo-

SOY/80-32-2-4/56

Production of Sodium Carbonate and Bicarbonate by Means of Ion Exchangers

Gorskeya, M.F. Kovaleva, N.Ye. Khomenko, and V.I. Lukashenko

helped in the experiments.

There are 3 tables and 7 references, 3 of which are Soviet

and 4 English.

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut imeni V.I. Lenina

(Khar'kov Polytechnical Institute Imeni V.I. Lenin)

SUBMITTED: July 15, 1957

Cari 2/2

S/075/61/016/006/001/006 B106/B147

AUTHORS:

Amsheyeva, A. A., and Bezuglyy, D. V.

TITLE:

Cerium determination in pig iron by titration with

hydroquinone solution

PERIODICAL:

Zhurnal analiticheskoy khimii, v. 16, no. 6, 1961, 683-687

TEXT: The authors developed a reliable and quick method for determining cerium in iron metals. It is based on the separation of cerium from other elements in the form of fluorides at a pH of 2-5, and on the rapid and exact titrimetric cerium determination with a hydroquinone solution. Two values were measured for the solubility product of CeF_z: 8,1·10⁻¹⁶ (radiometrically) and 1.1·10⁻¹⁵ (conductometrically) (Ref. 4. Weaver J. L. Furdi W. C., Anal Chim. Acta 20, 376 (1959)). The solubility of cerium fluoride was found to be 3·10⁻⁵ moles/liter for pH 2.

1.2·10⁻⁴ moles/liter for pH 1, and 1.1·10⁻³ moles/liter for pH 0. The

1.2.10 moles/liter for pH 1, and 1.1.10 moles/liter for pH 0. The weighed-in portion of pig iron should contain 2-3 mg of cerium. Determination is carried out as follows: the weighed-in portion of pig iron

Card 1/3

s/075/61/016/006/001/006 B106/3147

Cerium determination in ...

(1-3 g, depending on the cerium content) is heated with 25 30 milliliters of HCl (1 : 1) until complete dissolution takes place. The precipitated carbon is filtered off. The volume of the filtrate together with the washing fluids should not exceed 50 milliliters. Then, 0.5 g of ascorbic acid for the reduction of trivalent iron and, subsequently monia are added dropwise to the cold solution until precipitation seed in. Then, 0.5 g of sodium fluoride is added and the tigthly closed - staken for 1 hr. The fluoride precipitate is filtered off and was. . . -5 times with hot water. The filter with the precipitate is incluerated and slightly annealed in a muffle furnace. 15 milliliters of sulfuric acid (1 : 4) is added to the residue and evaporated to eliminate hydrofluoric acid completely. The choled residue is discolved in 150 milliliters of water. Thereafter, 5 milliliters of solfanic acid (density 1.84) and 10-25 milliliters of a 25% ammonium persulfate solution are added for serium exidation. The solution is boiled 5.7 min to remove the excess oxidizing agent completely. One drop of ferroine is added to the cooled solution and then titrated with a 0.005 H solution of hydroquinone in 1% sulfuric acid until a pink color accears. Titrimetric determination can be carried out with sufficient accuracy in the presence of lanthanum, neodymium and praseodymium. Trivalent from and hexavalent Card 2/3

Cerium determination in ...

S/075/61/016/006/001/006 B106/B147

molybdenum do not disturb in amounts < 5 mg. Vanadates and chromates do disturb. The above determination of cerium takes 5-6 hr. By systematic statistical evaluation of the results obtained in the analysis of synthetic mixtures, the authors showed that the method is convenient and accurate. It is being applied to analyses of modified pig iron samples at the authors' laboratory. R. S. Volodarskaya (Ref. 6: Zavodsk. laboratoriya 19, 1160 (1953)) is mentioned. There are 5 tables and 10 references: 4 Soviet-bloc and 6 non-Soviet. The three references to Inclish-language publications read as follows: Westwood W., Moum A., Analyst 75, 275 (1948); Jouden W. J., Analyt. Chem. 19, 946 (1947); Linnig F., Mandel J. and Peterson J., Anal. Chem. 26, 1102 (1954).

ADDUCTION:

Hhar'kovskiy politekhnicheskiy institut (Khar'kov Polytechnic Institute). Zavod transportnogo mashinostroyeniya im. V. A. Malysheva (Plant for Transportation Machinery imeni V. A. Halyshev)

SUBLITABD:

November 17, 1960

Card 3/3

BEZUGLYY, D.V.; AMSHEYEVA, A.A.

Determination of calcium in modified cast irons. Zhur.anal.khim. 17 no.9:1045-1051 D '62. (MIRA 16:2)

1. Lenim Kharkov Polytechnical Institute and Malyshev Transport Machine-Building Plant.
(Calcium-Analysis) (Cast iron-Analysis)

.60900-65 EMT(1)/EMT(m)/EPF(e)/EMP(j)/T IJP(e) RM CESSION NR: AR5017403 UR/0081/65 MURCE: Ref. zh. Khimiya, Abs. 108459	s/000/010/S074/S075
URCE: Ref. zh. Khimiya, Abs. 108459	
	2/
THOR: Nagornaya, L. L.; Bezuglyy, V. D.	\mathcal{G}
TLE: Investigation of the photoluminescent and scintillate in organic compounds with conjugate bonds in solid plastic	ion properties of cer-
TED SOURCE: Sb. Stsintillyatory i stsintillyats. material ar'kovsk. un-t, 1963, 91-98	y. Vyp. 3. Khar'kov,
PIC TAGS: photoluminescence, scintillation, conjugate bor	nd system
ANSLATION: The photoluminescent and scintiliation character of organic compounds were investigated to determine the notoluminescent and scintillation and structural aspects of the investigation was to determine the influence of the course investigation on the photoluminescent and scintillation and the medium on the photoluminescent and scintillation are provided in the course of the medium on the photoluminescent and scintillation are provided in the course of	connection between the the compounds. Also pling effect and of the lation characteristics.

L 60900-65

ACCESSION NR: AR5017403

investigated. For the investigation 18 x 15 mm plastic scintillators were used. Measurements of scintillation effectiveness were made according to the average photocurrent of a FEU-29 photoelectronic multiplier upon irradiation with a radioactive source of Agl10 (-0.1 tons of Cu); the quantum yield of photoluminescence was measured with a SF-4 spectrophotometer. It was found that the greatest increase of the quantum yield of photoluminescence is observed upon increasing the conjugate chain through the introduction in the n-position of additional phenyl rings; compounds with such residues as phenanthryl and anthryl ones have a considerably lower quantum yield than the corresponding diphenyl derivatives. A correlation relation was established between the quantum yield values of fluorescent and scintillation effectiveness for various classes of compounds in about the same spectral area of sensitivity employing a photoelectronic multiplier. The effect of the viscosity of the medium on the photoluminescent indices of certain derivatives of ethylene was shown; it was established that increasing the viscosity of a medium leads to an increase of quantum yield of compounds with an open conjugate chain; views explaining these phenomena were expressed. N. L.

SUB CODE: OC, OP

ENCL: 00

2/2 Card 2/2

BEZUGLYY, V.D.; ALEKSEYEVA, T.A.

Polarographic determination of monomers of 4-vinylbiphenyl and its derivatives in polymers and copolymers with styrene. Zhur. anal. khim. 18 no.2:261-266 F '63. (MIRA 17:10)

1. All-Union Scientific-Research Institute of Monocrystals, Scintillating Materials and Highly Pure Substances, Kharkov.

AMSHEYEVA, A.A.; BEZUGLYY, D.V.

Determination of bismuth in cast iron by a photometric or a complexometric method with xylenol orange. Zhur. anal. khim. 19 no. 1:97-101 '64. (MIRA 17:5)

1. Zavod transportnogo mashinostroyeniya imeni V.A.Malysheva i Politekhnicheskiy institut imeni Lenina, Khar'kov.

BEZUGLYY, D.V.; KHOMENKO, N.Ye.; LUKASHENKO, V.I.

Dynamics of ion-exchange adsorption of microcomponents in the presence of accompanying ions. Zhur. anal. khim. 19 no.3:276-281 '64. (MIRA 17:9)

1. Khartkovskiy politekhnicheskiy institut imeni Lenina.

BEZUGLYY, V.D.; KHEYFETS, L.Ya.; PLEOBRAZHENSKAYA, Ye.A.

Determination of anthraquinone and carbazole in anthracene by the polarographic method. Zhur, anal. khim. 19 no.11:1402-1406 64.

1. All-Union Scientific-Research Institute of Monocrystals, Scintillating Materials and Specially Pure Chemicals, Kharkev.

DMITRIYEVA, Vene; KONOMENKO, LeVe; REZEGLYY, VeDe Little tof structure on helf-wave potentials of eromatic eldergde anile. Teoret. A eksper. kbim. 1 no.4:456-461 165.

(MIRA 18:10)
1. Vsesnyn, znyy nanahno-isəledovatel'skiy institut monokristallov, Khar'kov.

BEZUGLYY, V.D.; PONOMAREV, Yu.P.

Polarographic determination of organic compounds being reduced in the far negative region of potentials. Report 1: Folarography of alkyl-substituted styrenes. Thur. anal. khim. 20 no.7:842-847 '65. (MIRA 18:9)

1. All-Union Scientific-Research Institute of Monocrystals, Scintillating Materials and Specially Pure Chemicals, Kharkov.

HEZUGLYY, I.P., kand.sel'skokhozyaystvennykh nauk; TITSKIY, I.Ya., kand.selskokhozyaystvennykh nauk.

Brewer's yeast increases butterfat percentage in cows.'
Zhivotnovodstvo 19 no.12:36-40 D '57. (MIRA 10:12)

1.Ternopol'skaya oblastnava sel'skokhozyaystvennaya opytnaya stantsiya.

(Gows--Feeding and feeding stuffs)
(Yeast)

15361

S/056/63/044/001/015/067 B108/B180

AUTHORS:

Bezuglyy, N. A., Galkin, A. A., Pushkin, A. I.

TITLE:

Magneto-acoustic oscillations and the Fermi surface in

aluminum

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fisiki, v. 44, no. 1, 1963, 71 - 79

TEXT: The anisotropy of the magneto-acoustic oscillations in aluminum was studied by a method described by A. A. Galkin, A. P. Korolyuk, PTE, 6, 199, 1960, to get information of the Fermi surface (V. L. Gurevich, Zhetf, 37, 71, 1959). Small aluminum disks were examined at 4.2°K at ultrasonic frequencies of 183 and 223 Mops in magnetic fields of up to ultrasonic frequencies of 183 and 223 Mops in magnetic fields of up to 1950 os. The sound wave vector was directed along the principal crystal-lographic axes [110], [100], [111]. The results showed the shape and lographic axes [110], [100], [111]. The results showed the shape and lographic axes [110], [100], [111]. The results showed the Fermi surdimensions of the second zone to be in good agreement with the Fermi surdimensions of the second zone to be in deal of almost free electrons. They also show that there are no sharp intersections on the surface of the second zone. In a previous paper (Zhetf, 42, 84, 1962), slower magneto-card 1/2

Magneto-acoustic oscillations and ...

8/056/63/044/001/015/067 B108/B180

acoustic oscillations were observed. A study of their anisotropy may throw light upon the structure of the third zone. There are 9 figures.

ASSOCIATION:

Fiziko-tekhnicheskiy institut nizkikh temperatur Akademii nauk Ukrainskoy SSR (Physicotechnical Institute of Low Temperatures of the Academy of Sciences Ukrainskaya SSR)

SUBMITTED:

July 21, 1962

Card 2/2

BEZUGLYY, N.F.

Automatic protection by signaling of dangerous sections and work sites. Put i put.khoz. 8 no.4:40-42 '64. (MIRA 17:4)

1. Glavnyy inzh. Novosigirskogo otdeleniya Zapadno-Sibirskoy dorogi.

BEZUGLYY, P. A.

USSR/Pigsics - Superconductivity

Nov 50

"Certain Peculiarities of the Transition to the Superconducting State, II," A. A. Galkin, B. G. Lazarev, P. A. Dezugly, Physicotech Inst, Acad Sci Ukrainian SSR

"Thur Eksper i Teoret Fiz" Vol XX, No 11, pp 987-991

Uses independent methods to determine velocity of displacement of boundary between normal and superconducting states (wis about 1,000 cr/sec). Shows this velocity differs when superconductivity is disrupted by constant and variable magnetic fields. Submitted 30 Har 50.

PA 169 T101

BEZUGLYY, P. A.

USSR/Physics

Card 1/1

Authors

: Galkin, A. A. and Bezuglyy, P. A.

Title

: Frequency dependence of surface resistance isotherms of super-conductors

Periodical

: Dokl. AN SSSR, 97, Ed. 2, 217 - 219, July 1954

Abstract

: Experiments were conducted to determine the frequency dependance of surface resistances of super-conductors. An expression for Rs was derived and com-

pared with experimental data. Nine references.

Institution : ...

Presented by: Academician I. K. Kikoin, March 23, 1954

CIA-RDP86-00513R000205210016-4" APPROVED FOR RELEASE: 06/08/2000

BEZUGLYY, P.A

USSR.

7975. The kinetics of destruction of superconductivity by a magnetic field. A. A. GALEIN AND P. A. BEZUCLYI. Zh. iksper. teor. Fiz., 28, No. 4, 463-70 (1955) in Russian.

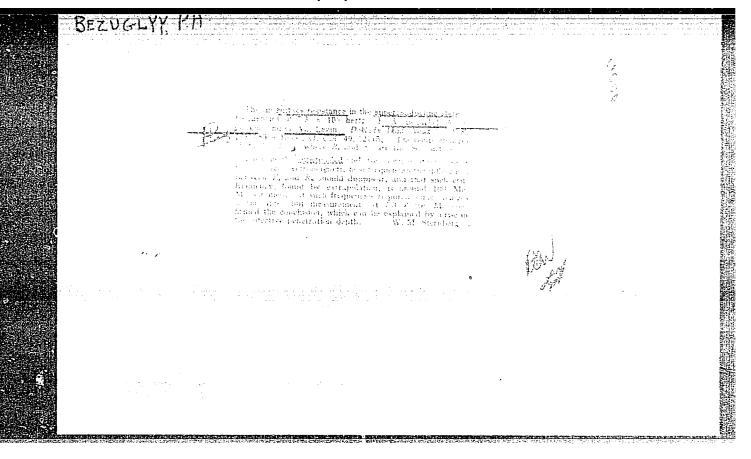
(1955) In Russian.

A superconducting tin or mercury cylinder was the core of a nutual inductance and the c.m.f. across the

secondary was studied escillographically in the presence of various steady magnetic fields for various amplitudes of the primary alternating field (such that the total field was above critical for part of each cycle) the total field was above critical for part of each cycle) and for various frequencies. From the results it is deduced in agreement with Lifshitz's theory [Abstr. 1016 (1952)] that the velocity of displacement of the boundary between superconducting and normal phases varies as vio (v = conductivity) but that the depth of destruction of superconductivity varies rather more rapidly with the excess of field over the critical than is predicted by the theory. It is estimated that the time of creation of a normal nucleus is <10° section the time of creation of a superconducting nucleus is ~1.5 × 10° sec.

GALKIN, A.A.; BEZUGLYY P.A.

Calorimetric investigations on the absorption of high-frequency fields by superconductors. Uch.zap. KHGU 64 no.6:175-182 (MIRA 10:7) (Superconductivity)



GALKIN, O.O.; BEZUGLIY,P.A.

New method for the determination of the topography of high frequency fields in hollow-space oscillators. Ukr.fiz.shur.
1 no.4:382-388 O-D '56. (MLRA 10:2)

1. Fixiko-tekhnichniy institut AM USSR, Kharkiv.
(Stilbene-Optical properties) (Dichroism)

BEZUGLYY, P. S.

AUTHORS:

Bezuglyy, F.A. (Bezuhlyy, F.A.) and Galkin, O.O. (Halkin, O.O.)

TITLE:

On the Absorption by Superconducting Tin of Electromagnetic Radiation of Frequencies 8.3×10^{10} and 11.1×10^{10} cycles (0 pogloshchenii sverkhprovodyashchim olovom elektromagnitnogo izlucheniya chastoty 8.3×10^{10} i 11.1×10^{10} gerts)

PERIODICAL:

Dopovidi Akademii Nauk Ukrains'koi RSR, 1957, Nr 5, pp. 436-438 (USSR)

ABSTRACT:

The temperature-dependence of the ratio $\frac{R_s(T)}{R_s}$ (where R_s is

surface resistance in the superconducting state and R is surface resistance in the normal state) in a tin sample was studied at frequencies of 8.3×10^{10} and $11.1 \times 10^{10} \mathrm{cps}$. The range of temperatures employed was from 1.5° to $4^{\circ}\mathrm{K}$. The sample was a tin single crystal polished by the electrolytic method. Its purity was 99.99%. The results of measurements are shown in the figure of the article where the values of the ratio are represented by ordinates and absolute temperatures by abscissae. These data show that at the frequencies used, the difference between $R_{\rm S}$ and $R_{\rm n}$ is preserved, decreasing with the rise of frequency. Inasmuch as surface resistance does not approach zero at temperatures approximating

Card 1/2

BERCE LONALA

AUTHORS:

Bezug'lyy, P. A., Galkin, A. A.,

56-4-5 1

TITLE:

The Cyclotron Resonance in Tin at a Frequency of 9300 mc (letter to the Editor) (Tsiklotronnyy resonans v olove pri chastote 9300 mg/45)

PERIODICAL:

Zhurnal Eksperim. i Teoret. Fiziki, 1957, Vol. 33, Nr 4 D. Augusta -1078, (USSR)

ABSTRACT:

In a magnetic field that runs exactly parallel to the surface of a metal sample it is possible that a cyclotron resonance occurs. In order to prove the existence of the latter the dependence of the active portion of the surface resistance of a tin sample on the field intensity of a constant magnetic field at 9300 MHz was experimentally taken. The tin sample consisted of a 0,8 mm thick, electropolished, monocrystalline wire in which the fourth order axis conincided with an accuracy up to 50 with the axis of the wire. The sample was placed in a coaxial copper resonator. The measurements were made at 4,20K and 20K. From the resulting curves it may be seen that a monotonous decline of the resistance is to be observed in fields larger than 4000 Oe. At H_1 = 3600 and H_2 = 900 Oe, 2 resonance minima were noticed. At the lower temperature the minima emerge more clearly. At the same time, however, they lift somewhat toward the side of the field intensity. A rotation of the sample by 900 opposite the constant magnetic field furnishes almost the same results. These data are in good agreement with other experimental results. There are 4 Slavic references.

Card 1/2

BELLGIDS

AUTHORS:

Bezuglyy, P. A., Galkin, A. A.

56-1-40/56

TITLE:

The Cyclotron Resonance in Lead at a Frequency of 8900 Megacycles. (Tsiklotronnyy rezonans v svintse pri chastote

8900 mggts)

PERIODICAL:

Zhurnal Eksperimental noy i Teoreticheskoy Fiziki, 1958.

Vol. 34, Nr 1, pp. 236-237 (USSR)

ABSTRACT:

The present paper shortly reports on the results of the experiments made on the observation of the cyclotron--resonance of lead at 8900 megacycles. At first the reasons for the selection of lead as test-object are given. A monocrystalline lead wire, ~ 12 mm in length and ~0,8 mm in diameter, served as sample. A coaxial copper resonator was fastened along the axis. The surface resistance of the sample was investigated by the same method as employed by the same authors in the investigations of the cyclotron--resonance in tin (reference 3). The results of the measurements of R(H)/R(1300) in lead at the frequency of 8900 megacycles at the temperatures 4,2°K and 2°K are given

Card 1/2

in a diagram. R(H) signifies the surface resistance in a constant field with more than 1300 oersted field strength.

The Cyclotron Resonance in Lead at a Frequency of 8900 Megacycles

56-1-40/56

This diagram clearly shows the important influence exerted by the relaxation time of the electrons upon this phenomenon. At 4,2°K only a monotonous decrease in the resistance with increasing field strength is observed, but at 2°K and H~2400 cersted a fairly low resonance-minimum exists. After this minimum follows a maximum and then the surface resistance rapidly decreases in agreement with the forecast of theory. In lead (just as in tin) the main groups of the electrons supposedly are responsible for the cyclotron resonance. There are 1 figure and 6 references, 4 of which are Slavic.

ASSOCIATION:

Physical-Technical Institute AN Ukrainian SSR

(Fiziko-tekhnicheskiy institut Akademii nauk Ukrainskoy SSR)

SUBMITTED:

October 5, 1957

AVAILABLE:

Library of Congress

Card 2/2

BEZERLAN

AUTHORS:

Bezuglyy, P. A., Galkin, A. A.

56-1-41/56

TITLE:

An Investigation of the Surface Resistance of Tin in Weak Magnetic Fields (Issledovaniye poverkhnostnogo

soprotivleniya olova v slabykh magnitnykh polyakh)

PERIODICAL:

Zhurnal Eksperimental noy i Teoreticheskoy Fiziki, 1958, Vol. 34, Nr 1, pp. 237-238 (USSR)

ABSTRACT:

The authors investigated this surface resistance at field strengths up to loo cersted with a method already described earlier (reference 3). The results of these experiments at a frequency of 9300 mega-cycles and a temperature of 4,20 K are here illustrated in a diagram. In agreement with the forecast of theory the active resistance of the metal at field strengths up to lo oersted is practically independent on the field strength, i. e. at $H \rightarrow 0$ applies $dR/dH \rightarrow 0$. When H>10 oersted the surface resistance monotonously decreases with increasing field strength. In measurements of the temperature dependence of R $/R_n$ in semiconductors it has to be reckoned with the dependence of the surface resistance of metals on the strength of the magnetic field. In this connection R_{g} and R_{n} signify the surface resistances

Card 1/2

An Investigation of the Surface Resistance of Tin in Weak 56-1-41/56

of the metal in the superconducting and in the normal state respectively. A disregarding of this fact would lead to increased values of R /R $_{\rm n}$. There are 1 figure and 3 references, all of which are Slavic.

ASSOCIATION:

Physical-Technical Institute AN Ukrainian SSR (Fiziko-tekhnicheskiy institut Akademii nauk**US**SR)

SUBMITTED:

October 5, 1957

AVAILABLE:

Library of Congress

Card 2/2

24 (1)

AUTHORS:

Bezuglyy, P. A., Galkin, A. A. Korolyuk, A. P.

SOV/56-36-6-61/66

TITLE:

The Anisotropy of the Absorption Coefficients of Ultrasonics in Superconductors (Anizotropiya koeffitsiyentov pogloshcheniya

ul'trazvuka v sverkhprovodnikakh)

PERIODICAL:

Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959

Vol 36, Nr 6, pp 1951 - 1952 (USSR)

ABSTRACT:

By the investigation of the absorption of ultrasonics in superconductors it is possible to determine the size of the energy slit at T = 0 as well as the dependence of the slit width (ξ_0) on temperature. The experiments carried out in this connection are in agreement with theory. By means of experiments also the

influence exercised by the isotope composition and the homogeneous lattice deformation upon T_{k} and on the width of the

slit was investigated. It may be imagined that lattice anisotropy leads to more visible results than isotopic composition. In the present "Letter to the Editor" experimental results concerning the absorption of ultrasonics (frequency 70 kilocycles) in superconductive and normal media are published. (Determina-

Card 1/2

The Anisotropy of the Absorption Coefficients of SOV/56-36-6-61/66 Ultrasonics in Superconductors

tion of the absorption coefficient in the C_2 - and C_4 -axis of a spherical tin sample). The results, which were dealt with by the method developed by Bardeen, Cooper and Schrieffer (Ref 4) are shown in a table. It was found that the temperature dependence of the ratio of the absorption coefficient α_s/α_n is different in the two directions. The case of sound propagation along the C_4 -axis agrees better with the isotropic theory of superconductivity. There are 1 table and 4 references, 1 of which is Soviet.

ASSOCIATION:

Fiziko-tekhnicheskiy institut Akademii nauk Ukrainskoy SSR (Physico-technical Institute of the Academy of Sciences, Ukrainskaya SSR)

SUBMITTED:

April 7, 1959

Card 2/2

BEZUGLYY, PA.

82594

24.7700

S/056/60/039/01/01/029 B006/B070

AUTHORS:

Bezuglyy, P. A., Galkin, A. A., Korolyuk, A. P.

TITLE:

Investigation of the Anisotropy of the Energy Gap in Superconducting Tin

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1960, Vol. 39, No. 1 (7), pp. 7-12

TEXT: The authors investigated the temperature dependence of the ultrasonic absorption coefficient in different directions of single crystals of superconducting tim. They describe the methods of investigation and present the results. The method of energy gap investigation is based on the determination of the difference between the curves $\alpha_{\rm s}/\alpha_{\rm n}=f(T)$ when the ultrasonics is propagated along a binary (C₂) and a tetragonal crystal axis. From this difference the anisotropy of the energy gap may be determined. $\alpha_{\rm s}$ and $\alpha_{\rm n}$ are the electronic ultrasonic absorption coefficients in the superconducting and the normal state respectively. They are related to the width 2 $\epsilon_{\rm o}$ of the energy gap by Card 1/4

82594

Investigation of the Anisotropy of the Energy S/056/60/039/01/01/029 Gap in Superconducting Tin S/056/60/039/01/01/029

the relation $\alpha_s/\alpha_n = 2/(e^{\epsilon_0/kT} + 1)$. To investigate the influence of the lattice anisotropy on the energy spectrum of electrons in a semiconductor, the temperature dependence and absorption coefficients of longitudinal supersonics was investigated by means of an apparatus described here in detail. Fig. 1 shows a block diagram of the measuring device. The generator works at 70 Mc/sec, the quartz emitter receives 2500-3000 pulses per second for a duration of $(1 \div 1.5) \cdot 10^{-6}$ sec. A small sphere of single crystals of tin was used as a sample. It had a diameter of 13-15 mm, and on it, cut surfaces of 5-6 mm diameter perpendicular to the crystallographic axes were produced by electrocorrosion. Onto these surfaces quartz emitters and receivers were cemented in vacuum and on them small plates of brass of 5-6 mm diameter and a thickness of 0.2-0.3 mm. For very pure crystals of tin the condition that the mean free path of the electrons be large in comparison to the ultrasonic wavelength was very well fulfilled at helium temperature. The temperature dependence of ultrasonic absorption coefficients was measured simultaneously in two different directions at temperatures down to 10K. Fig. 2 shows the Dewar for helium in which the measurements were carried out.

Card 2/4

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205210016-4"

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Card 3/4

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Investigation of the Anisotropy of the Energy S/056/60/039/01/01/029 Gap in Superconducting Tin S/056/60/039/01/01/029

The temperature of the sample was determined from the saturation vapor pressure of helium. The results are shown in diagrams. Fig. 3 shows $\alpha_{\rm s}/\alpha_{\rm n}$ between $1^{\rm o}$ and $4^{\rm o}{\rm K}$ taken along two mutually perpendicular ${\rm C}_2$ axes. The measured values (full and empty circles) all lie on one line which shows that the physical properties are the same in the two directions. Fig. 4 shows the same for ${\rm C}_2$ and ${\rm C}_4$ axes. Here the anisotropy of the energy gap is clearly seen. Measurements made on two samples gave uniform results. For the absolute value of the electronic part of the ultrasonic absorption coefficients in the normal state in the neighborhood of ${\rm T}_{\rm c}$, the following results are obtained: $\alpha_{\rm n}=(47.6\pm0.2)$ decibel/cm $-({\rm C}_2)$, and $\alpha_{\rm n}=(21.4\pm0.2)$ decibel/cm $-({\rm C}_4)$. Fig. 5 shows $\log(\alpha_{\rm s}/\alpha_{\rm n})=f({\rm T}_{\rm c}/{\rm T})$. From the slope of the straight line portion of the curve, the energy gap width at absolute zero may be determined to be $(3.5\pm0.2){\rm kT}_{\rm c}$ for the ${\rm C}_2$ -axis and (3.1 ± 0.1) kT for the C4-axis. Besides the anisotropy in the temperature dependence of the absorption coefficients, an anisotropy

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Investigation of the Anisotropy of the Energy S/056/60/039/01/01/029 Gap in Superconducting Tin S/056/60/039/01/01/029

of the transition temperature T_C is also established. For the C₂-axis T_C lies about 0.004 K higher than for the C₄-axis. The authors thank A. I. Berdovskiy and E. I. Ponomarenko for cooperation in the measurements and V. L. Karpachevskiy and B. N. Aleksandrov for help in the preparation of the sample. There are 5 figures and 13 references: 5 Soviet, 6 American, 1 British, and 1 Dutch.

ASSOCIATION: Fiziko-tekhnicheskiy institut Akademii nauk Ukrainskoy SSR (Physicotechnical Institute of the Academy of Sciences of the Ukrainskaya SSR)

SUBMITTED: January 12, 1960

Card 4/4

BEZUGLYY, P.A.; GAIKIN, A.A.

Anisotropy of the energy slit in tin in the plane of the binary axes of a crystal. Zhur. eksp. i teor. fiz. 39 no.4:1163-1164 (MIRA 13:11)

Magnetoacoustic oscillations and fermi surface in aluminum.

Report submitted for the 8th Intl. conference on Low Temperature Physics

London, England, 16-22 Sep 1962

BEZUGLYY, P.A.; GALKIN, A.A.; PUSHKIN, A.I.; KHOMCHENKO, A.I.

Magnetoacoustic resonance in all.

Magnetoacoustic resonance in aluminum. Zhur.eksp.i teor.fiz.
42 no.1:84-85 Ja *62. (MIRA 15:3)

1. Fiziko-tekhnicheskiy institut nizkikh temperatur AN (Nuclean manuati

(Nuclear magnetic resonance and relaxation) (Aluminum)

L 10725-65 EWT(1)/EWT(z)/EWP(b) IJP(c)/ESD(t)/ESD(gs)/ASD(a)-5 JD

ACCESSION NR: AP4046394

S/0056/64/047/003/0825/0835

AUTHORS: Bezugly*y, P. A.; Galkin, A. A.; Zhevago, S. E.

TITLE: Investigation of the Fermi surface in gallium on the basis of magneto-acoustic effects

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 47, no. 3, 1964, 825-835

TOPIC TAGS: gallium, Fermi surface, magnetoacoustic effect, ultraspund absorption, absorption coefficient

ABSTRACT: This work was intended to determine the topology of the constant-energy surfaces of gallium from the oscillations of the ultrasonic absorption coefficient in a magnetic field. The existing experimental data are inadequate to serve as a basis for comparison with the present model of the Fermi surface for gallium. For this purpose, the anisotropy of magnetoacoustic oscillations in gallium

Card 7/3

L 10725-65

ACCESSION NR: AP4046394

single crystals was measured for a sound wave vector aligned along the a and c axes, at a temperature 4.2K, a longitudinal ultrasonic frequency 200 Mcs, and magnetic field strengths up to 500 Oe. The pulse technique described by A. A. Galkin and A. P. Korolyuk (PTE, no. 6, 199, 1960) was used, and some of the measurements were made at 1.9K. The results show that for a given sound wave direction there are two principal types of absorption-coefficient oscillations, short-period (type A) in fields above 100 Oe, and long-period (type B) in the 20--2,000 Oe range. A third type (C) is also observed at narrow angles (52--60°). The values of the observed periods and the character of their anisotropy are in qualitative agreement with the individual regions of the Fermi surface of the 7th, 8th, and 9th electron bands, constructed in the nearly free electron approximation. The causes of the observed discrepancies are discussed. "The authors thank I. O. Kulik for valuable discussions, B. N. Aleksandrov for preparing the samples, and N. S. Kharchenko for performing x-ray studies of the samples." Orig. art. has: 8 figures, 1 formula and

Cord 2/3

1, 10725-65

ACCESSION NR: AP4046394

1 table.

ASSOCIATION: Fiziko-tekhnicheskiy institut nizkikh temperatur Akademii nauk SSSR (Physicotechnical Institute of Low Temperatures.

Academy of Sciences SSSR)

SUBMITTED: 01Apr64

SUB CODE: SS, GP

NR REP SOV: 004

ENCL: 00

OTHER: 008

Card 3/3

	L 31.954-65 ETT (1)/5WT(1)/EXC(2)/	(a) 1885 (b)	s/0181/65/007/0	02/0480/0484 Jb	
3	ACCRESION SALES P. A.; Galkin,	A. A.; Zhoros	gallium at 210 Mc	25 B	9
	SCURCE: Fighta tverdogo tela, V.	7, no. 2, 1965, stic effect, Ferr	il surface, single		
	ABSTRACT: Results are reported abstracts in single-cryst	of an experience of general samples of general samples of general state of	ulium, using rallel ave vector parallel the vave vector p	to the bears erallel to gallium sample	18
	of the crystal, and in a ses	The same y (Z	herr v. 4/2 the	210 Mc Tres	nd
	each of the three plants are used in earlier research be were used in earlier research be that a different pair of quarts that a different pair of quency. All experiments were propagates along the b-axis of propagates along the b-axis of	the crystal, th			
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L 31951-65

ACCESSION NR: AP5005287

reaches a maximum value (1.5 x 10-2 0e-1 when the field is parallel to c) and decreases smoothly as the angle between the magnetic field and the a-axis decreases. Only two or three oscillations are observed in the entire angle interval, so that the accuracy with which the oscillation periods are determined is quite low. The oscillations themselves are irregular. The results do not agree with the previously published description of the central section of the 9th electron zone, and no check on the latter could be made because of lack of data at small angles and the small number of oscillations. In the case of a longitudinal magnetic field with the sound wave vector parallel to the a-axis, resonant oscillations were observed in the absorption coefficient, showing that the dispersion deviates greatly from quadratic. A distinguishing feature of these oscillations is, first, that the maxima on the absorption curve are considerably sharper than the minima, and that the relative widths of the maxima do not depend on the numbers of the maxima. Furthermore, the amplitude of each succeeding maximum decreases. All these results are likewise in disagreement with the forms given by the nearly-free-electron model for the Fermi surfaces. Orig. art. hee: 5 figures and 3 formulas. [02]

Card 2/3

ACCESSION NH: AP5005287

ASSOCIATION: Fiziko-tekknichoskiy institut nizkikh temperatur AN UkrSSR, Khar'kov (Physicotechnical Institute of Low Temperatures, AN UkrSSR)

SURAHTTED: 23Jul6! ENCL: 00 EUB CODE: SS.EM

NO REF SOV: 003 OTHER: 005 ATD PRESS: 3214

BEZUGLYY, P.A.; ZHEVAGO, S.Ye.; DENISENKO, V.I.

Magnetoacoustic study of the Fermi surface in molybdenum. Zhur.eksp. i teor.fiz. 49 no.5:1457-1462 N '65.

(MIRA 19:1)

1. Fiziko-tekhnicheskiy institut nizkikh temperatur AN UkrSSR.

BEZUGLYY, P.A.; YEREMENKO, V.V.; KUKUSHKIN, L.S.; KULIK, I.O.; MANZHELIY, V.G.; PERESADA, V.I.; PESCHANSKIY, V.G.; POPOV, V.A.; SHISHKIN, L.A.

Conference on the physics of the condensed state. Usp. fiz. nauk 88 no.2:387-393 F '66. (MIRA 19:2)

1. Fiziko-tekhnicheskiy institut nizkikh temperatur AN UkrSSR.

BEZUGLYY, P.A. [Bezuhlyi, P.A.]; BURMA, N.G. [Burma, M.H.]; BUTENKO, T.F.; MINYAFAYEV, R.Kh. [Miniafaiev, R.Kh.]

Determining the elastic constants of solid ammonia in the temperature range of 180° - 77°K. Ukr. fiz. zhur. 10 no. 11: 1251-1257 N *65. (MIRA 18:12)

1. Fiziko-tekhnicheskiy institut nizkikh temperatur AN UkrSSR, Khar'kov.

L 15671-66 EWT(1)

ACC NR: AP6000201

SOURCE CODE: UR/0056/65/049/005/1457/1462

AUTHOR: Bezuglyy, P. A.; Zhevago, S. Ye.; Denisenko, V. I.

ORG: Physicotechnical Institute of Low Temperatures, Academy of Sciences, UkrSSR (Fiziko-tekhnicheskiy institut nizkikh temperatur Akademii nauk UkrSSR)

TITLE: Magnetoacoustic investigation of the Fermi surface of molybdenum

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 5, 1965, 1457-1462

TOPIC TAGS: molybdenum, magnetoacoustic effect, single crystal, magnetic anisotropy transverse magnetic field, acoustic wave, electromagnetic wave excitation ABSTRACT: In view of the fragmentary experimental data published so far on the magnetoaccustic effects in molybdenum, the authors investigated this effect in greater detail by studying the anisotropy of the oscillation periods of the geometrical resonance in transverse magnetic fields when the acoustic wave vector was oriented along the principal crystallographic directions of a single-crystal sample of molybdenum. The measurements at 200 Mc frequency and 4.2K used the pulse procedure of A. A. Galkin and A. P. Korolyuk (PTE, no. 6, 199, 1960). The temperatures were 1.8K in the case of q | [100] and 4.2K in the case q | [110] and [111]. The results showed that in different angle ranges, three different oscillation periods are observed in the absorption coefficient, one short-period and two long-period. It is shown that the short-period oscillations, observed for q | [100], give the dimensions of the electronic surface, while the long-period oscillations are associated

Card 1/2.

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Nonlinear affects in ultrasourd absorption in superconducting indium. Zhur.eksp. i teor.fiz. 49 no.6s1715-1717 B 16s.

N. Fiziko-tekhnicheskiy institut nickth temperatur AN UkrSSR.
Submitted June 28, 1965.

EWT(1)/EWT(m)/T/EWP(t)/EWP(k) IJP(c) L 25693-66 SOURCE CODE: UR/0056/65/049/006/1715/1717 ACC NR AP6002708 AUTHOR: Bezuglyy, P. A.; Fil', V. D.; Shevchenko, O. A. ORG: Physicotechnical Institute of Low Temperatures, Academy of Sciences UkrSSR (Fiziko-tekhnicheskiy institut nizkikh temperatur Akademii nauk UkrSSR) TITLE: Nonlinear effects in the absorption of ultrasound in superconducting indium SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 49, no. 6, 1965, 1715-1717 TOPIC TAGS: ultrasonic absorption, indium, superconductivity, critical point, crystal dislocation phenomenon, single crystal, magnetic field, crystal anisotropy ABSTRACT: In view of new self-absorption mechanisms recently discovered to operate in the superconducting state (R. E. Love and R. M. Show, Rev. Modern Fhys. v. 36, 260, 1964) wherein a strongly marked nonlinearity appears in the sound absorption below the critical temperature, the authors report observation of similar effects in indium. The absorption of longitudinal sound at frequencies 115, 160, and 210 Mc/sec was investigated in single crystals of indium with orientations (100), (110), and (111). The crystals were prepared by the procedure of YU. V. Sharvin and V. F. Gantmakher (PTE, No. 6, 165, 1963). The measurements were made at temperatures 4.2--1K. The observed dependence of the absorption of the ultrasonic wave on the amplitude of the sound field disappeared when a magnetic field sufficiently strong to destroy superconductivity was applied. An analysis of the data shows the results to be in qualitative 2 Card 1/2

L 25693-66

ACC NR: AP6002708

agreement with the model of A. Granato and K. Lucke (J. App. Phys. v. 27, 583, 1956) for the amplitude-dependent absorption of ultrasound by dislocations. Most dislocations were found to be growth dislocations. Research is planned on the possibility of separating the electronic part of the absorption in its pure form and determination of the anisotropy of the energy gap, which preliminary estimates show to be lower than obtained from the present data. Orig. art. has: 2 figures.

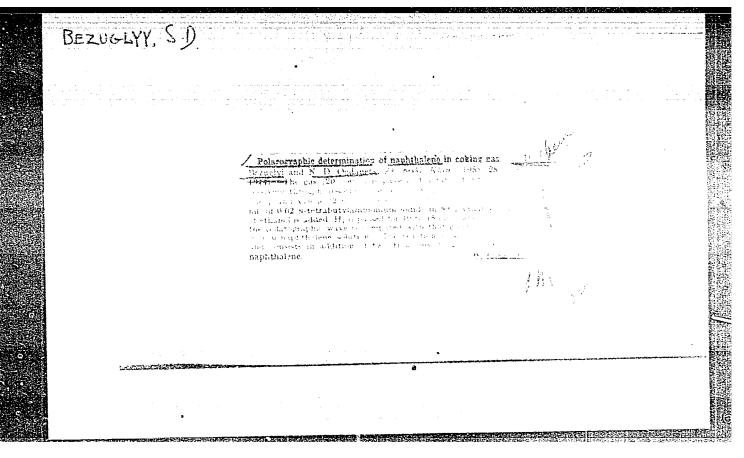
SUB CODE: 20/ SUBM DATE: 28 June 5/ ORIG REF: 001/ OTH REF: 004

Chrd 2/2

BEZUGLYY, S., kand. khim. nauk

Prospects for the production of various forms of pesticides. Zashch. rast. ot vred. i bol. 10 no.3:9-11 '65. (MIRA 19:1)

1. Vsesoyuznyy nauchno-issledovatel skiy institut khimicheskikh sredstv zashchity rasteniy.



BEZUGLYY, S. F.

Plastic-viscous properties of an adhesive of the "tangle-foot" type for protection against caterpillars. S. F. Bezuglyfe J. Applied Chem. (U.S.S.R.) 19, 79-89 (1940).—The adhesive manufd. in U.S.S.R. on the base of a formulation of phenolic resins, castor oil, begswax, and Na and Ca oleales (no figures given) was studied by the rotating-cylinder method as to the plastic properties. The adhesive behaves, within a few \(\frac{C}{0} \), according to Bingham's equation for plastic viscous flow (cf. C.A. 16, 2117); the temp. range studied was 18-55°. The effects of the addn. of oleates (2.8 to 8%) also were studied; a particularly high stabilizing effect is secured with Na oleate, while Ca oleate produces good plastic-viscous properties.

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205210016-4"

The first of the second of the

BEZUGLYY, S. F. Cand. Chem. Sci.

Dissertation: "Investigation of the Plastic and Viscous Properties of Caterpillar Glues in Connection with the Development of Method for their Production." Sci Res Inst of Fertilizer and Insectofungicides imeni Ya. V. Samoylov, 11 Apr 47.

SO: Vechernyaya Moskva, Apr, 1947 (Project #17836)

BEZUGLYY, S. F.

USSR/Chemistry - Insecticides

FD-505

Card 1/1

: Pub. 50-4/23

Authors

: Bezuglyy, S. F., Cand. Chem. Sci., and Shogam, S. M., Cand. Chem Sci

Title

: Some physico-chemical properties of insecticide emulsions and insecti-

cide dusts

Periodical

: Khim. prom., 272-278 (16-22), Jul/Aug 1954

Abstract

: Reviews on the basis of USSR work the properties of emulsions and dusts containing DDT, hexachlorocyclohexane, thiophos, and chlorten (chlcrinated turpentine or chlorinated alpha-pinene fraction). Describes procedures for the production of these emulsions and dusts. Twenty two

references; 20 of them USSR, all since 1940. Three graphs.

Institution : Scientific Research Institute of Fertilizers and Insectofungicides.

Submitted

BEZUGLYY, S.F.

Studies on concentrated insecticidal emulsions of DDT and hexachloro-cyclohexane. [Trudy] NIUIF no.156:90-129 '55. (MLRA 9:10)

(DDT (Insecticide)) (Bensene hexachloride)

BEZUGLYY, S.F.

Colloidal stability of homogenized DDT and hexachloro-cyclohexane emulsions. [Trudy] NIUIF no.156:139-146 '55. (MLRA 9:10)

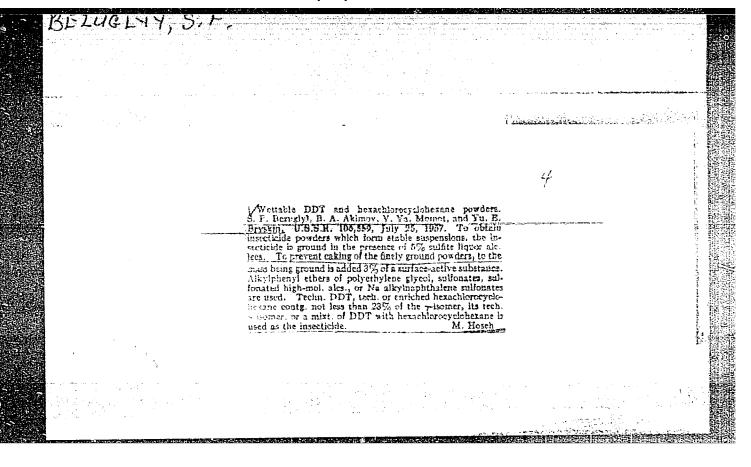
(DDT (Insecticide)) (Benzene hexachloride)

BEZUGLYY, S.F.

Adsorption of sulfite liquor in DDT emulsions. [Trudy] NIUIF no.156:147-154 55. (MLRA 9:10)

(DDT (Insecticide)) (Sulfite liquor) (Adsorption)

Concentrated 129-138 155.	emulsion o	of anthracene oil	1. [Trudy] NIU	IF no.156: (MLRA 9:10)
(Anthrac	ene oil) ((Insecticides)	ecticides)	



		Inconticidal Treparation. S	F. Bezuglyi and	в. А.	2	a t _e = v te t	
		Akinoy. U.S.R. 106,830, A cide compa, conts, e.g., chlorid heptachlor, a mixt, of surface poly(ethylene glycolates) or Supowders wettable and to form lignosulfounte is added to act filler.	ractive substances, sulfonol, is added to ma stable on, suspendon as stabilizer and ka	ns, and nch as ake the s. Ca olin as	و د استخبر		
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CIA-RDP86-00513R000205210016-4 "APPROVED FOR RELEASE: 06/08/2000

66217

sov/64-59-6-9/28 5(1), 30(1)

Bezuglyy, S. F., Candidate of Chemical Sciences, Akimov, BaAs AUTHORS:

Wettable Insecticidal, Acaricidal, and Herbicidal Powders for TITLE:

Use in the Form of Aqueous Suspensions

Khimicheskaya promyshlennost', 1959, Nr 6, pp 494-499 (USSR) PERIODICAL.

Part of the present investigation was made with the aid of ABSTRACT:

No Yao Momot and Yuo Yeo Bryskins A method for the preparation of concentrated powders on the basis of DDT (30-50%), hexachloro. cyclohexane (50%), sulfonate ester (30-80%), and other agents with additions of the surface-active substances OP-7 or OP-10 and spent sulfite spirit lye was developed. The experimental grinding was done by means of vibratory, ball, and blast mills On the basis of the experimental results concerning the influence of the addition of OP-10 upon the degree of dispersion of the sulfonate ester powder (Table 1) as well as the effect of spent sulfite spirit lye upon the stability of the suspension

in water (Table 2) the following formula is given:

commercial sulfonate ester

powdered spent sulfite spirit 2-5 lye

2~3 OP-10 or OF-7

62-66 Card 1/2 kaolin

66217 SOV/64-59-6-9/28

Wettable Insecticidal, Acaricidal, and Herbicidal Powders for Use in the Form of Aqueous Suspensions

> From the scheme of the unit MV-200-1.5 (Fig 1) it can be seen that a portioning balance DM=100 is used. The results (Fig 2) of the sedimentation analysis by means of Figurovskiy's balance (Ref 4) as well as the degree of dispersion of the powders on the basis of sulfonate ester (Table 3) show that in this case both intermittent and continuous grinding in ball mills gives identical results. F. A. Drannikova, G. A. Fedorov (VNIITISM) and V. G. Antonova (NIUIF) participated in the grinding experiments conducted on a vibratory mill M10-3. Powders on the basis of DDT (30%) were produced (Table 4, data of intermittent grinding, table 5, data of continuous grinding, table 6, test results of the powders), and it was found that continuous grinting should be avoided because of excessive warming. Some physico chemical data of the powders obtained (Table 7) as well as of powders on the basis of chlorinated terpenes (Table 8) are given. There are 1 figure, 8 tables, and 7 Soviet references,

ASSOCIATION: Nauchnyy institut po udobreniyam i insektofungitsidam imeni Yas V. Samoylova (Scientific Institute of Fertilizers and Insectofungicides imeni Ya. V. Samoylov)

Card 2/2

BEZUGLYY, S.F.; LITVINOVA, A.F.; POKROVSKIY, Ye.A.

Physicochemical investigations of insecticidal emulsions and solutions with emulsifiers in order to improve the methods for preparing the above form of insecticides. [Trudy] NIUIF no.164: 29-31 '59. (MIRA 15:5)

BEZUGLYY, S.F.; AKIMOV, B.A.; POPOV, P.V.; UKRAINETS, N.S.; BOCHAROVA, L.P. Physicochemical investigations of the wettable powders of different insecticides in order to improve the methods of their production.

[Trudy] NIUIF no.164:32-34 '59. (Insecticides) (MIRA 15:5)

BEZUGLYY, S.F.; SARISHVILI, I.G.; LUKANINA, V.S.; POKROVSKIY, Ye.A.;
UNTERBERGER, V.K.

Investigation of the chemical stability of mineral oils and oil fractions and development of nonphytocidal emulsions based on them for controlling pests of citrus and other fruit cultures.

[Trudy] NIUIF no.164:34-35 '59. (MIRA 15:5) (Insecticides)

Developing the technology of 50 per cent emulsion pastes of DDT and introducing their production. [Trudy] HIUIF no.165:4-8 '59. (MIRA 13:8)						
	(DDT (Insecticide))					
	•					
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BEZUGLYY, S.F.; AKIMOV, B.A.; MOMOT, V.Ya.; BRYSKIN, Yu.Ye.

Wetting powders of DDT (30 per cent) and principles of their production. [Trudy] NIUIF no.165:9-14 *59. (MIRA 13:8)

- 1. Predpriyatiye khimicheskoy promyshlennosti (for Momot, Bryskin).
- 2. Nauchnyy institut po udobreniyam i insektofungitsidam im. Ya. V. Samoylova (for Dezaglyy, Akimov).
 (DDT (Insecticide))

BEZUGLYY, S.F.; AKIMOV, B.A.; ANTONOVA, V.G.; DRANNIKOVA, F.A.

DDT wetting powders prepared by vibration grinders. [Trudy]
NIUIF no.165:15-20 '59. (MIRA 13:8)

1. Nauchnyy institut po udobreniyam i insektofungitsidam im.Ya.V. Samoylova (for all except Drannikova). 2. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh problem stroitel'nykh materialov na baze tonkogo izmel'cheniya (for Drannikova).

(DDT (Insecticide))

BEZIGLYY, S. F.; AK INOV, B.A.; ANTONOVA, V.G.

Wetting powders of sulfonate esters for use in water suspensions.
[Trudy] MIUIF no.165:21-31 *59.

(Sulfonic acids)

BEZUGLYY, S. F.; KALASHNIKOVA, V. N.

Method of determining gamma-isomers in concentrated mineral and butyrous emulsions of (EhTsG. [Trudy] NIUIF no.165:32-35 *59. (MIRA 13:8)

Research in the chemical composition of petroleum oils with the object of using them in insecticides. [Trudy] NIUIF no.165:78-87 159. (Petroleum-Amalysis)

Principal others of using posticides. Zhur. Ville 5 no. 3:251-366 * K. (Pesticides)

BEZUGLYY, S.F.; LITVINOV, A.F.

Preparing a 50 % combined DDT and hexachlorocyclohexane emulsionpaste. [Trudy] NIUIF no.171:92-96 '61. (MIRA 15:7) (DDT (Insecticide)) (Benzene hexachloride)

Kinetics of structure formation in the 50 % DDT paste. [Trudy]
NIUIF no.171:97-102 '61. (MIRA 15:7)

(DDT (Insecticide))

BEZUGLYY, S.F.; LUKANINA, V.S.

Petroleum oil emulsion (preparation No.30) for summer spraying of fruit trees against the San Jose scale. [Trudy] NIUIF no.191:103-110 '61. (MIRA 15:7) (San Jose scale) (Petroleum products) (Insecticides)

BEZUGLYY, S.F., kand.khim.nauk; AKIMOV, B.A.; ANTONOVA, V.G.

Comminution of concentrated pesticide wetting powders in an airjet mill. Khim.prom. no.9:695-697 S '62. (MIRA 15:11)

1. Nauchno-issiedovater en la insektofungisidam imeni Samoylova.
(Pesticides) 1. Nauchno-issledovatel'skiy institut po udobreniyam i